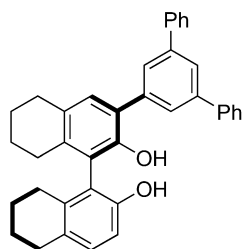


Stereochemistry abstracts

Toshiro Harada* and Takahiro Ukon

Tetrahedron: Asymmetry 18 (2007) 2499



$C_{38}H_{34}O_2$

(*R*)-3-(3,5-Diphenylphenyl)-2,2'-dihydroxy-5,5',6,6',7,7',8,8'-octahydro-1,1'-binaphthyl

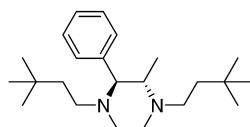
$[\alpha]_D^{25} = +69.7$ (*c* 1.00, $CHCl_3$)

Source of chirality: (*R*)-2,2'-dihydroxy-5,5',6,6',7,7',8,8'-octahydro-1,1'-binaphthyl

Absolute configuration: (*R*)

Quentin Perron and Alexandre Alexakis*

Tetrahedron: Asymmetry 18 (2007) 2503



$C_{23}H_{42}N_2$

(1*S*,2*S*)-*N*1,*N*2-Bis(3,3-dimethylbutyl)-*N*1,*N*2-dimethyl-1-phenylpropane-1,2-diamine

Ee = 99%

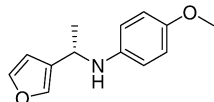
$[\alpha]_D^{20} = +36.2$ (*c* 0.97, $CHCl_3$)

Source of chirality: (+)-pseudoephedrin

Absolute configuration: (1*S*,2*S*)

Quentin Perron and Alexandre Alexakis*

Tetrahedron: Asymmetry 18 (2007) 2503



$C_{13}H_{15}NO_2$

(*S*)-*N*-(1-(Furan-3-yl)ethyl)-4-methoxybenzenamine

Ee = 75%

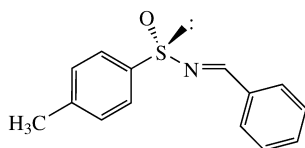
$[\alpha]_D^{20} = -14.7$ (*c* 1.04, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Monika Ardej-Jakubisiak, Robert Kawęcki* and Aneta Świetlińska

Tetrahedron: Asymmetry 18 (2007) 2507



$C_{14}H_{13}NOS$

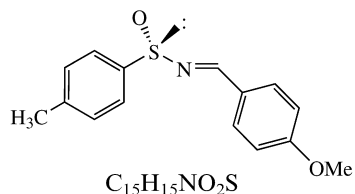
(*S*₈)-*N*-Benzylidene-*p*-tolylsulfonamide

$[\alpha]_D = +111.7$ (*c* 1.1, $CHCl_3$)

Absolute configuration: (*S*)

Monika Ardej-Jakubisiak, Robert Kawęcki* and Aneta Świetlińska

Tetrahedron: Asymmetry 18 (2007) 2507



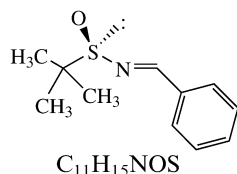
(*S*₈)-*N*-*p*-Methoxybenzylidene-*p*-tolylsulfonamide

$[\alpha]_D = +38.1$ (*c* 1.0, $CHCl_3$)

Absolute configuration: (*S*)

Monika Ardej-Jakubisiak, Robert Kawęcki* and Aneta Świetlińska

Tetrahedron: Asymmetry 18 (2007) 2507



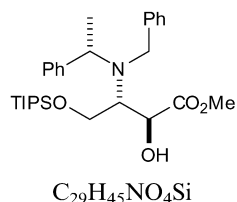
(*R*₈)-*N*-Benzylidene-*t*-butylsulfonamide

$[\alpha]_D = -104.7$ (*c* 1.0, $CHCl_3$)

Absolute configuration: (*R*)

Elin Abraham, José I. Candela-Lena, Stephen G. Davies,*
Matthew Georgiou, Rebecca L. Nicholson, Paul M. Roberts,
Angela J. Russell, Elena M. Sánchez-Fernández, Andrew D. Smith
and James E. Thomson

Tetrahedron: Asymmetry 18 (2007) 2510



Methyl (2*S*,3*S*, α *S*)-2-hydroxy-3-[*N*-benzyl-*N*-(α -methylbenzyl)amino]-4-tri-*iso*-propylsilyloxy-butanoate

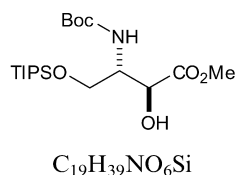
$[\alpha]_D^{22} = +37.0$ (*c* 2.3 in $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (2*S*,3*S*, α *S*)

Elin Abraham, José I. Candela-Lena, Stephen G. Davies,*
Matthew Georgiou, Rebecca L. Nicholson, Paul M. Roberts,
Angela J. Russell, Elena M. Sánchez-Fernández, Andrew D. Smith
and James E. Thomson

Tetrahedron: Asymmetry 18 (2007) 2510



Methyl (2*S*,3*S*)-2-hydroxy-3-[*N*-(*tert*-butoxycarbonyl)amino]-4-tri-*iso*-propylsilyloxy-butanoate

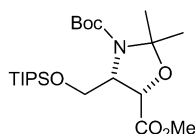
$[\alpha]_D^{21} = +17.3$ (*c* 0.4 in $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (2*S*,3*S*)

Elin Abraham, José I. Candela-Lena, Stephen G. Davies,*
Matthew Georgiou, Rebecca L. Nicholson, Paul M. Roberts,
Angela J. Russell, Elena M. Sánchez-Fernández, Andrew D. Smith
and James E. Thomson

Tetrahedron: Asymmetry 18 (2007) 2510



(4*S*,5*S*)-2,2-Dimethyl-*N*(3)-*tert*-butoxycarbonyl-4-tri-*iso*-propylsilyloxymethyl-5-methoxycarbonyl-oxazolidine

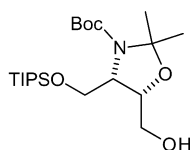
$$[\alpha]_D^{22} = +15.2 (c\ 1.8\ \text{in}\ CHCl_3)$$

Source of chirality: asymmetric synthesis

Absolute configuration: (4*S*,5*S*)

Elin Abraham, José I. Candela-Lena, Stephen G. Davies,*
Matthew Georgiou, Rebecca L. Nicholson, Paul M. Roberts,
Angela J. Russell, Elena M. Sánchez-Fernández, Andrew D. Smith
and James E. Thomson

Tetrahedron: Asymmetry 18 (2007) 2510



(4*S*,5*S*)-2,2-Dimethyl-*N*(3)-*tert*-butoxycarbonyl-4-tri-*iso*-propylsilyloxymethyl-5-hydroxymethyl-oxazolidine

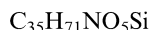
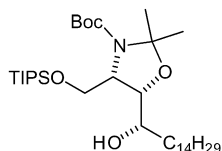
$$[\alpha]_D^{22} = +9.8 (c\ 0.8\ \text{in}\ CHCl_3)$$

Source of chirality: asymmetric synthesis

Absolute configuration: (4*S*,5*S*)

Elin Abraham, José I. Candela-Lena, Stephen G. Davies,*
Matthew Georgiou, Rebecca L. Nicholson, Paul M. Roberts,
Angela J. Russell, Elena M. Sánchez-Fernández, Andrew D. Smith
and James E. Thomson

Tetrahedron: Asymmetry 18 (2007) 2510



(4*S*,5*S*,1'*S*)-2,2-Dimethyl-*N*(3)-*tert*-butoxycarbonyl-4-tri-*iso*-propylsilyloxymethyl-5-(1'-hydroxypentadecyl)oxazolidine

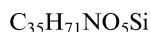
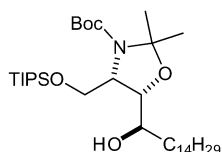
$$[\alpha]_D^{22} = +7.8 (c\ 0.5\ \text{in}\ CHCl_3)$$

Source of chirality: asymmetric synthesis

Absolute configuration: (4*S*,5*S*,1'*R*)

Elin Abraham, José I. Candela-Lena, Stephen G. Davies,*
Matthew Georgiou, Rebecca L. Nicholson, Paul M. Roberts,
Angela J. Russell, Elena M. Sánchez-Fernández, Andrew D. Smith
and James E. Thomson

Tetrahedron: Asymmetry 18 (2007) 2510



(4*S*,5*S*,1'*R*)-2,2-Dimethyl-*N*(3)-*tert*-butoxycarbonyl-4-tri-*iso*-propylsilyloxymethyl-5-(1'-hydroxypentadecyl)oxazolidine

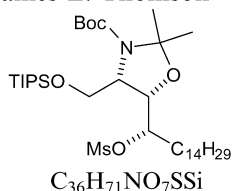
$$[\alpha]_D^{22} = +7.5 (c\ 2.8\ \text{in}\ CHCl_3)$$

Source of chirality: asymmetric synthesis

Absolute configuration: (4*S*,5*S*,1'*R*)

Elin Abraham, José I. Candela-Lena, Stephen G. Davies,*
Matthew Georgiou, Rebecca L. Nicholson, Paul M. Roberts,
Angela J. Russell, Elena M. Sánchez-Fernández, Andrew D. Smith
and James E. Thomson

Tetrahedron: Asymmetry 18 (2007) 2510



(4*S*,5*S*,1'*S*)-2,2-Dimethyl-*N*(3)-*tert*-butoxycarbonyl-4-tri-*iso*-propylsilyloxymethyl-5-[1'-(methanesulfonyloxy)-pentadecyl]oxazolidine

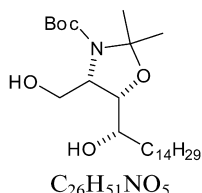
$$[\alpha]_D^{22} = +6.1 \text{ (} c \text{ 2.5 in } CHCl_3 \text{)}$$

Source of chirality: asymmetric synthesis

Absolute configuration: (4*S*,5*S*,1'*S*)

Elin Abraham, José I. Candela-Lena, Stephen G. Davies,*
Matthew Georgiou, Rebecca L. Nicholson, Paul M. Roberts,
Angela J. Russell, Elena M. Sánchez-Fernández, Andrew D. Smith
and James E. Thomson

Tetrahedron: Asymmetry 18 (2007) 2510



(4*S*,5*S*,1'*S*)-2,2-Dimethyl-*N*(3)-*tert*-butoxycarbonyl-4-hydroxymethyl-5-(1'-hydroxypentadecyl)oxazolidine

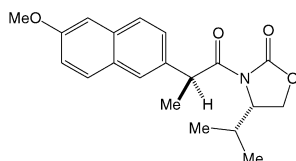
$$[\alpha]_D^{22} = +10.1 \text{ (} c \text{ 2.2 in } CHCl_3 \text{)}$$

Source of chirality: asymmetric synthesis

Absolute configuration: (4*S*,5*S*,1'*S*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda,
Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli,
Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



(4*S*)-Isopropyl-3-[2*S*-(6-methoxynaphth-2-yl)-propionyl]-oxazolidin-2-one

Ee >98%; De >98%

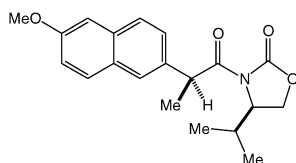
$$[\alpha]_D^{20} = +194.3 \text{ (} c \text{ 1.6, } CHCl_3 \text{)}$$

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*,*S*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda,
Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli,
Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



(4*R*)-Isopropyl-3-[2*S*-(6-methoxynaphth-2-yl)-propionyl]-oxazolidin-2-one

Ee >98%; De >98%

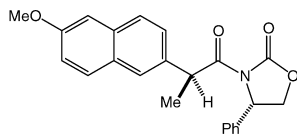
$$[\alpha]_D^{20} = +218.4 \text{ (} c \text{ 2.0, } CHCl_3 \text{)}$$

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*,*R*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{23}H_{21}NO_4$

(4S)-Phenyl-3-[2S-(6-methoxynaphth-2-yl)-propionyl]-oxazolidin-2-one

Ee > 98%; De > 98%

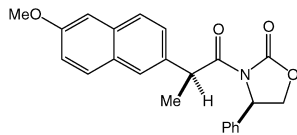
$[\alpha]_D^{20} = +167.5$ (c 1.4, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (S,S)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{23}H_{21}NO_4$

(4R)-Phenyl-3-[2S-(6-methoxynaphth-2-yl)-propionyl]-oxazolidin-2-one

Ee > 98%; De > 98%

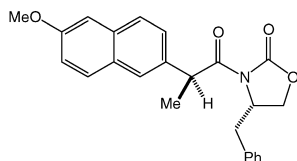
$[\alpha]_D^{20} = +59.6$ (c 3.3, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (S,R)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{24}H_{23}NO_4$

(4S)-Benzyl-3-[2S-(6-methoxynaphth-2-yl)-propionyl]-oxazolidin-2-one

Ee > 98%; De > 98%

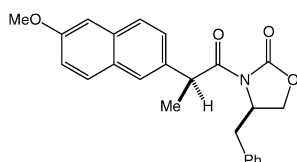
$[\alpha]_D^{20} = +135.6$ (c 0.73, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (S,S)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{24}H_{23}NO_4$

(4R)-Benzyl-3-[2S-(6-methoxynaphth-2-yl)-propionyl]-oxazolidin-2-one

Ee > 98%; De > 98%

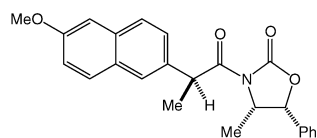
$[\alpha]_D^{20} = +29.2$ (c 1.2, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (S,R)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{24}H_{23}NO_4$

(4*S*,5*R*)-4-Methyl-5-phenyl-3-[2*S*-(6-methoxynaphth-2-yl)-propionyl]-oxazolidin-2-one

Ee >98%; De >98%

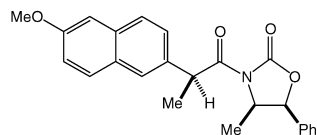
$[\alpha]_D^{20} = +88.9$ (*c* 1.2, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,S,R*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{24}H_{23}NO_4$

(4*R*,5*S*)-4-Methyl-5-phenyl-3-[2*S*-(6-methoxynaphth-2-yl)-propionyl]-oxazolidin-2-one

Ee >98%; De >98%

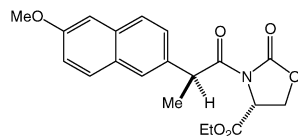
$[\alpha]_D^{20} = +142.9$ (*c* 1.4, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,R,S*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{20}H_{21}NO_6$

(4*R*)-Ethyl 2-oxa-3-[2*S*-(6-methoxynaphth-2-yl)-propionyl]-oxazolidin-4-carboxylate

Ee >98%; De >98%

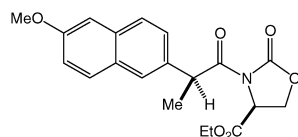
$[\alpha]_D^{20} = +146.8$ (*c* 0.92, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,R*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{20}H_{21}NO_6$

(4*S*)-Ethyl 2-oxa-3-[2*S*-(6-methoxynaphth-2-yl)-propionyl]-oxazolidin-4-carboxylate

Ee >98%; De >98%

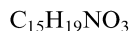
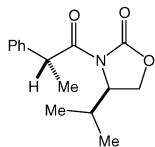
$[\alpha]_D^{20} = +55.7$ (*c* 3.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,S*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



(4*R*)-Isopropyl-3-(2*R*-phenylpropionyl)-oxazolidin-2-one

Ee > 98%; De > 98%

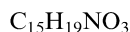
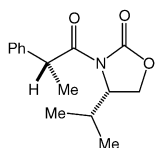
$[\alpha]_D^{20} = -109.6$ (c 11.6, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R,R*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



(4*S*)-Isopropyl-3-(2*R*-phenylpropionyl)-oxazolidin-2-one

Ee > 98%; De > 98%

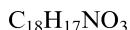
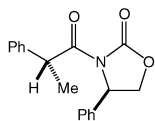
$[\alpha]_D^{20} = -19.4$ (c 3.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R,S*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



(4*R*)-Phenyl-3-(2*R*-phenylpropionyl)-oxazolidin-2-one

Ee > 98%; De > 98%

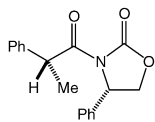
$[\alpha]_D^{20} = -179.1$ (c 3.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R,R*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



(4*S*)-Phenyl-3-(2*R*-phenylpropionyl)-oxazolidin-2-one

Ee > 98%; De > 98%

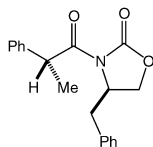
$[\alpha]_D^{20} = -83.4$ (c 5.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R,S*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{19}H_{19}NO_3$

(4R)-Benzyl-3-(2R-phenylpropionyl)-oxazolidin-2-one

Ee >98%; De >98%

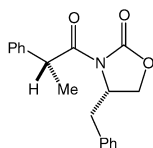
$[\alpha]_D^{20} = -104.0$ (c 4.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (R,R)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{19}H_{19}NO_3$

(4S)-Benzyl-3-(2R-phenylpropionyl)-oxazolidin-2-one

Ee >98%; De >98%

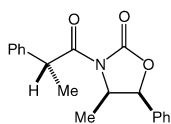
$[\alpha]_D^{20} = +1.46$ (c 9.8, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (R,S)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{19}H_{19}NO_3$

(4R,5S)-4-Methyl-5-phenyl-3-(2R-phenylpropionyl)-oxazolidin-2-one

Ee >98%; De >98%

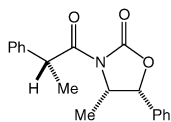
$[\alpha]_D^{20} = -39.2$ (c 4.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (R,R,S)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{19}H_{19}NO_3$

(4S,5R)-4-Methyl-5-phenyl-3-(2R-phenylpropionyl)-oxazolidin-2-one

Ee >98%; De >98%

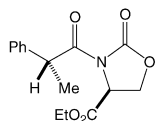
$[\alpha]_D^{20} = -106.9$ (c 3.2, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (R,S,R)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{15}H_{17}NO_5$

(4S)-Ethyl 2-oxa-3-(2R-phenylpropionyl)-oxazolidin-4-carboxylate

Ee > 98%; De > 98%

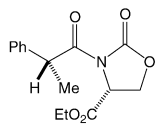
$[\alpha]_D^{20} = -129.5$ (c 2.2, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (R,S)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{15}H_{17}NO_5$

(4R)-Ethyl 2-oxa-3-(2R-phenylpropionyl)-oxazolidin-4-carboxylate

Ee > 98%; De > 98%

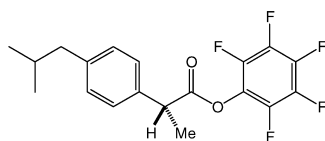
$[\alpha]_D^{20} = -24.8$ (c 5.3, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (R,R)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{19}H_{17}F_5O_2$

(2R)-Pentafluorophenyl 2-(4-isobutylphenyl)propionate

Ee > 98%

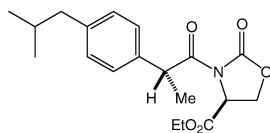
$[\alpha]_D^{20} = -91.4$ (c 5.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (R)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{19}H_{25}NO_5$

(4S)-Ethyl 2-oxa-3-{2R-(4-isobutylphenyl)propionyl}-oxazolidin-4-carboxylate

Ee > 98%; De > 98%

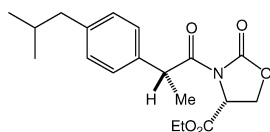
$[\alpha]_D^{20} = -125.4$ (c 12.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (R,S)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{19}H_{25}NO_5$

(4*R*)-Ethyl 2-oxa-3-{2*R*-(4-isobutylphenylpropionyl)}-oxazolidin-4-carboxylate

Ee >98%; De >98%

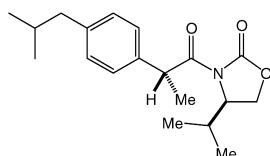
$[\alpha]_D^{20} = -25.2$ (*c* 5.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R,R*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{19}H_{27}NO_3$

(4*R*)-Isopropyl 3-{2*R*-(4-isobutylphenylpropionyl)}-oxazolidin-2-one

Ee >98%; De >98%

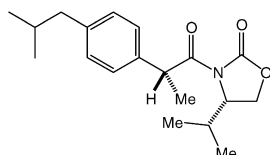
$[\alpha]_D^{20} = -87.5$ (*c* 12.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R,R*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{19}H_{27}NO_3$

(4*S*)-Isopropyl 3-{2*R*-(4-isobutylphenylpropionyl)}-oxazolidin-2-one

Ee >98%; De >98%

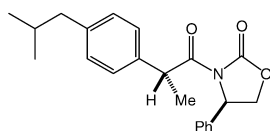
$[\alpha]_D^{20} = -33.0$ (*c* 1.2, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R,S*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{22}H_{25}NO_3$

(4*R*)-Phenyl 3-{2*R*-(4-isobutylphenylpropionyl)}-oxazolidin-2-one

Ee >98%; De >98%

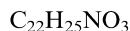
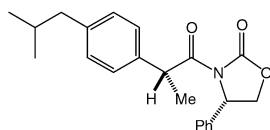
$[\alpha]_D^{20} = +144.5$ (*c* 7.2, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R,R*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



(4S)-Phenyl-3-{2R-(4-isobutylphenylpropionyl)}-oxazolidin-2-one

Ee > 98%; De > 98%

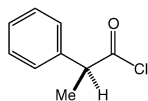
$[\alpha]_D^{20} = -114.6$ (c 4.2, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (R,S)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



(S)-2-Phenylpropionyl chloride

Ee > 98%

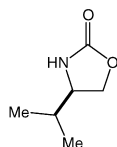
$[\alpha]_D^{20} = +73.2$ (c 4.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



(R)-4-Isopropyl-oxazolidin-2-one

Ee > 98%

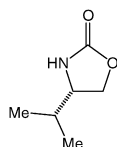
$[\alpha]_D^{20} = -14.0$ (c 2.4, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (R)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



(S)-4-Isopropyl-oxazolidin-2-one

Ee > 98%

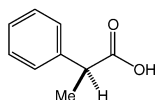
$[\alpha]_D^{20} = +13.7$ (c 3.8, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_9H_{10}O_2$

(*S*)-2-Phenylpropionic acid

Ee >98%

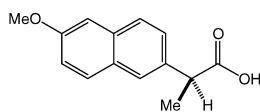
$[\alpha]_D^{20} = +71.5$ (*c* 2.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{14}H_{14}O_3$

(*S*)-2-(6-Methoxynaphth-2-yl)-propionic acid

Ee >98%

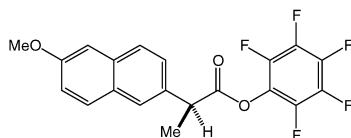
$[\alpha]_D^{20} = +65.0$ (*c* 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{20}H_{13}F_5O_3$

(*S*)-Pentafluorophenyl 2-(6-methoxynaphth-2-yl)-propionate

Ee >98%

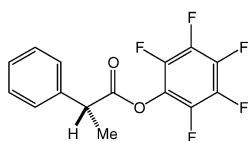
$[\alpha]_D^{20} = +93.6$ (*c* 5.6, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Ewan Boyd, Elliot Coulbeck, Gregory S. Coumbarides, Sameer Chavda, Marco Dingjan, Jason Eames,* Anthony Flinn, Majid Motevalli, Julian Northen and Yonas Yohannes

Tetrahedron: Asymmetry 18 (2007) 2515



$C_{15}H_9F_5O_2$

(*R*)-Pentafluorophenyl 2-phenylpropionate

Ee >98%

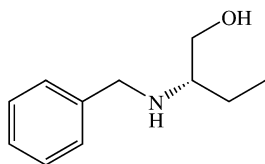
$[\alpha]_D^{20} = -75.0$ (*c* 3.3, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Emese Pálovics, Laura Bereczki, Katalin Marthi, György Pokol,
Ferenc Faigl and Elemér Fogassy*

Tetrahedron: Asymmetry 18 (2007) 2531



$C_{11}H_{17}NO$

Benzylaminobutanol

Ee >99.5%

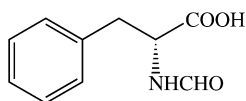
$[\alpha]_D^{20} = +25.2$ (c 2, ethanol)

Source of chirality: enantiopure resolving agent

Absolute configuration: (S)

Emese Pálovics, Laura Bereczki, Katalin Marthi, György Pokol,
Ferenc Faigl and Elemér Fogassy*

Tetrahedron: Asymmetry 18 (2007) 2531



$C_{10}H_{11}NO_3$

N-Formylphenylalanine

Ee >83% by chiral HPLC

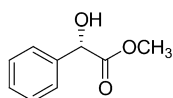
$[\alpha]_D^{20} = -62.3$ (c 2, ethanol)

Source of chirality: optical resolution

Absolute configuration: (R)

Yongzheng Chen, Jinggang Xu, Xiaoying Xu, Yu Xia, Hui Lin,
Shiwen Xia* and Lixin Wang

Tetrahedron: Asymmetry 18 (2007) 2537



$C_9H_{10}O_3$

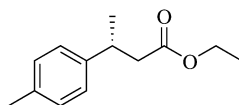
(S)-Methyl mandelate

$[\alpha]_D^{20} = +130.2$ (c 0.8, methanol)

Absolute configuration: (S)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 18 (2007) 2547



$C_{13}H_{18}O_2$

(3R)-Ethyl 3-(4-methylphenyl)butanoate

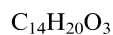
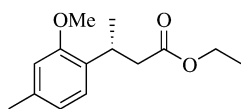
$[\alpha]_D^{25} = -26.2$ (c 3.5, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (3R)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 18 (2007) 2547



(3*R*)-Ethyl 3-(2-methoxy-4-methylphenyl)butanoate

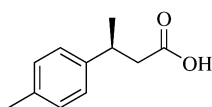
$$[\alpha]_D^{25} = -2.7 \text{ (} c \text{ 1.0, CHCl}_3 \text{)}$$

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 18 (2007) 2547



(3*S*)-3-(4-Methylphenyl)butanoic acid

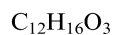
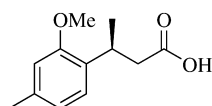
$$[\alpha]_D^{25} = +34.2 \text{ (} c \text{ 1.0, CHCl}_3 \text{)}$$

Source of chirality: enzymatic resolution

Absolute configuration: (3*S*)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 18 (2007) 2547



(3*S*)-3-(2-Methoxy-4-methylphenyl)butanoic acid

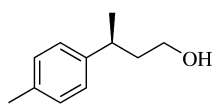
$$[\alpha]_D^{25} = +16.2 \text{ (} c \text{ 2.5, CHCl}_3 \text{)}$$

Source of chirality: enzymatic resolution

Absolute configuration: (3*S*)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 18 (2007) 2547



(3*S*)-3-(4-Methylphenyl)-1-butanol

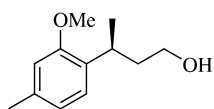
$$[\alpha]_D^{25} = +30.1 \text{ (} c \text{ 1.0, CHCl}_3 \text{)}$$

Source of chirality: enzymatic resolution

Absolute configuration: (3*S*)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 18 (2007) 2547



(3S)-3-(2-Methoxy-4-methylphenyl)-1-butanol

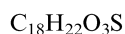
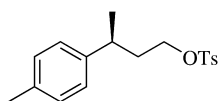
$[\alpha]_D^{25} = +21.6$ (c 1.0, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (3S)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 18 (2007) 2547



(3S)-3-(4-Methylphenyl)butyl 4-methyl-1-benzenesulfonate

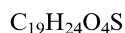
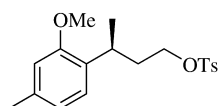
$[\alpha]_D^{25} = +37.7$ (c 1.0, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (3S)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 18 (2007) 2547



(3S)-3-(2-Methoxy-4-methylphenyl)butyl 4-methyl-1-benzenesulfonate

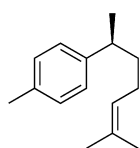
$[\alpha]_D^{25} = +14.2$ (c 3.6, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (3S)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 18 (2007) 2547



(6S)-2-Methyl-6-(4-methylphenyl)-2-heptene

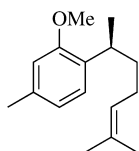
$[\alpha]_D^{25} = +42.7$ (c 1.0, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (6S)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 18 (2007) 2547



$C_{16}H_{24}O$

(6*S*)-6-(2-Methoxy-4-methylphenyl)-2-methyl-2-heptene

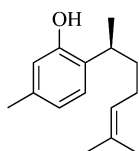
$[\alpha]_D^{25} = +7.1$ (*c* 1.0, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (6*S*)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 18 (2007) 2547



$C_{15}H_{22}O$

2-[(1*S*)-1,5-Dimethyl-4-hexenyl]-5-methylphenol

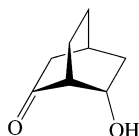
$[\alpha]_D^{25} = +23.5$ (*c* 1.0, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (1*S*)

Magnus Carlquist, Ted Johanson and Marie F. Gorwa-Grauslund*

Tetrahedron: Asymmetry 18 (2007) 2554



$C_8H_{12}O_2$

(1*R*,4*S*,6*S*)-6-Hydroxy-bicyclo[2.2.2]octane-2-one

Ee = 96%

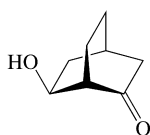
$[\alpha]_D^{22} = -7.6$ (*c* 1.15, $CHCl_3$)

Source of chirality: enzymatic reduction

Absolute configuration: (1*R*,4*S*,6*S*)

Magnus Carlquist, Ted Johanson and Marie F. Gorwa-Grauslund*

Tetrahedron: Asymmetry 18 (2007) 2554



$C_8H_{12}O_2$

(1*S*,4*R*,6*S*)-6-Hydroxy-bicyclo[2.2.2]octane-2-one

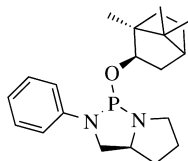
$[\alpha]_D^{22} = +4.1$ (*c* 1.0, $CHCl_3$)

Source of chirality: enzymatic reduction

Absolute configuration: (1*S*,4*R*,6*S*)

Konstantin N. Gavrilov,* Eduard B. Benetsky, Tatiana B. Grishina,
Sergey V. Zheglov, Eugenie A. Rastorguev, Pavel V. Petrovskii,
Fliur Z. Macaev and Vadim A. Davankov

Tetrahedron: Asymmetry 18 (2007) 2557



$C_{21}H_{31}N_2OP$

(2*R*,5*S*,1'*S*,2'*R*)-2-(1',7',7'-Trimethylbicyclo[2.2.1]heptyl-2'-oxy)-3-phenyl-1,3-diaza-2-phosphabicyclo[3.3.0]octane

Ee = 100%

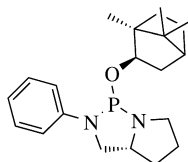
$[\alpha]_D^{20} = -251.4$ (c 1.0, CH_2Cl_2)

Source of chirality: (*S*)-(+)-glutamic acid
endo-(1*S*)-1,7,7,-trimethylbicyclo[2.2.1]heptane-2-ol

Absolute configuration: (2*R*,5*S*,1'*S*,2'*R*)

Konstantin N. Gavrilov,* Eduard B. Benetsky, Tatiana B. Grishina,
Sergey V. Zheglov, Eugenie A. Rastorguev, Pavel V. Petrovskii,
Fliur Z. Macaev and Vadim A. Davankov

Tetrahedron: Asymmetry 18 (2007) 2557



$C_{21}H_{31}N_2OP$

(2*S*,5*R*,1'*S*,2'*R*)-2-(1',7',7'-Trimethylbicyclo[2.2.1]heptyl-2'-oxy)-3-phenyl-1,3-diaza-2-phosphabicyclo[3.3.0]octane

Ee = 100%

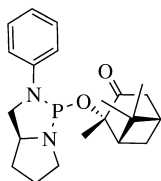
$[\alpha]_D^{20} = +237.7$ (c 1.0, CH_2Cl_2)

Source of chirality: (*R*)-(-)-glutamic acid
endo-(1*S*)-1,7,7,-trimethylbicyclo[2.2.1]heptane-2-ol

Absolute configuration: (2*S*,5*R*,1'*S*,2'*R*)

Konstantin N. Gavrilov,* Eduard B. Benetsky, Tatiana B. Grishina,
Sergey V. Zheglov, Eugenie A. Rastorguev, Pavel V. Petrovskii,
Fliur Z. Macaev and Vadim A. Davankov

Tetrahedron: Asymmetry 18 (2007) 2557



$C_{21}H_{29}N_2O_2P$

(2*R*,5*S*,1'*S*,2'*S*,5'*S*)-2-(2',6',6'-Trimethylbicyclo[3.1.1]heptan-3'-one-2'-oxy)-3-phenyl-1,3-diaza-2-phosphabicyclo[3.3.0]octane

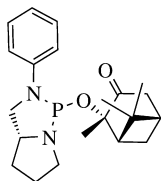
$[\alpha]_D^{20} = -197.1$ (c 1.0, CH_2Cl_2)

Source of chirality: (*S*)-(+)-glutamic acid
(1*S*,2*S*,5*S*)-(-)-2-hydroxy-3-pinane

Absolute configuration: (2*R*,5*S*,1'*S*,2'*S*,5'*S*)

Konstantin N. Gavrilov,* Eduard B. Benetsky, Tatiana B. Grishina,
Sergey V. Zheglov, Eugenie A. Rastorguev, Pavel V. Petrovskii,
Fliur Z. Macaev and Vadim A. Davankov

Tetrahedron: Asymmetry 18 (2007) 2557



$C_{21}H_{29}N_2O_2P$

(2*S*,5*R*,1'*S*,2'*S*,5'*S*)-2-(2',6',6'-Trimethylbicyclo[3.1.1]heptan-3'-one-2'-oxy)-3-phenyl-1,3-diaza-2-phosphabicyclo[3.3.0]octane

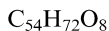
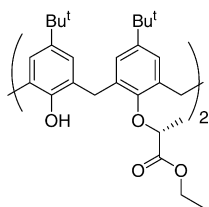
$[\alpha]_D^{20} = +217.4$ (c 1.0, CH_2Cl_2)

Source of chirality: (*R*)-(-)-glutamic acid
(1*S*,2*S*,5*S*)-(-)-2-hydroxy-3-pinane

Absolute configuration: (2*S*,5*R*,1'*S*,2'*S*,5'*S*)

Gloria Uccello-Barretta,* Margherita-Giulia Berni and Federica Balzano

Tetrahedron: Asymmetry 18 (2007) 2565



5,11,17,23-Tetra-*tert*-butyl-25,27-bis[(*R*)-1-ethoxycarbonylethoxy]-26,28-dihydroxycalix[4]arene

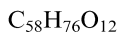
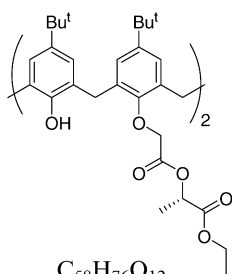
$[\alpha]_D^{22} = +65$ (*c* 1.0, CH_2Cl_2)

Source of chirality: ethyl (*S*)-lactate

Absolute configuration: (*R*)

Gloria Uccello-Barretta,* Margherita-Giulia Berni and Federica Balzano

Tetrahedron: Asymmetry 18 (2007) 2565



5,11,17,23-Tetra-*tert*-butyl-25,27-bis[(*S*)-(1-ethoxycarbonylethoxy)carbonylmetoxy]-26,28-dihydroxycalix[4]arene

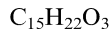
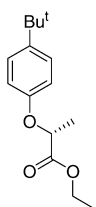
$[\alpha]_D^{24} = -7.1$ (*c* 1.0, CH_2Cl_2)

Source of chirality: ethyl (*S*)-lactate

Absolute configuration: (*S*)

Gloria Uccello-Barretta,* Margherita-Giulia Berni and Federica Balzano

Tetrahedron: Asymmetry 18 (2007) 2565



p-*tert*-Butylphenyl-[(*R*)-1-ethoxycarbonylethoxy]

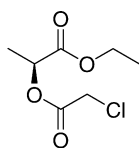
$[\alpha]_D^{26} = +26.6$ (*c* 1.0, CH_2Cl_2)

Source of chirality: ethyl (*S*)-lactate

Absolute configuration: (*R*)

Gloria Uccello-Barretta,* Margherita-Giulia Berni and Federica Balzano

Tetrahedron: Asymmetry 18 (2007) 2565



Ethyl (*S*)-2-(chloroacetoxy)propanoate

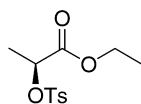
$[\alpha]_D^{26} = -42.6$ (*c* 1.0, CH_2Cl_2)

Source of chirality: ethyl (*S*)-lactate

Absolute configuration: (*S*)

Gloria Uccello-Barretta,* Margherita-Giulia Berni and Federica Balzano

Tetrahedron: Asymmetry 18 (2007) 2565



$C_{12}H_{16}O_5S$

Ethyl (*S*)-2-*p*-toluenesulfonyloxypropanoate

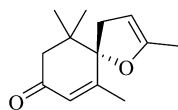
$[\alpha]_D^{26} = -30$ (*c* 1.0, CH_2Cl_2)

Source of chirality: ethyl (*S*)-lactate

Absolute configuration: (*S*)

Stefano Serra,* Assem Barakat and Claudio Fuganti

Tetrahedron: Asymmetry 18 (2007) 2573



$C_{13}H_{18}O_2$

(+)-(*6S*)-Dehydrotheaspirone

Ee = 98% (chiral GC analysis)

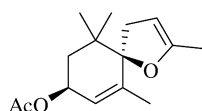
$[\alpha]_D^{20} = +35$ (*c* 1, $CHCl_3$)

Source of chirality: lipase-mediated resolution and fractional crystallization

Absolute configuration: (*6S*)

Stefano Serra,* Assem Barakat and Claudio Fuganti

Tetrahedron: Asymmetry 18 (2007) 2573



$C_{15}H_{22}O_3$

(-)-(*5R,8S*)-2,6,10,10-Tetramethyl-1-oxa-spiro[4.5]deca-2,6-dien-8-yl acetate

Ee = 97%

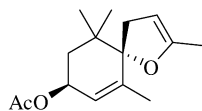
$[\alpha]_D^{20} = -17.4$ (*c* 1, $CHCl_3$)

Source of chirality: lipase-mediated resolution and fractional crystallization

Absolute configuration: (*5R,8S*)

Stefano Serra,* Assem Barakat and Claudio Fuganti

Tetrahedron: Asymmetry 18 (2007) 2573



$C_{15}H_{22}O_3$

(-)-(*5S,8S*)-2,6,10,10-Tetramethyl-1-oxa-spiro[4.5]deca-2,6-dien-8-yl acetate

Ee = 98%

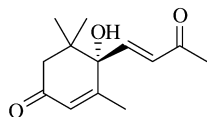
$[\alpha]_D^{20} = -48.7$ (*c* 1, $CHCl_3$)

Source of chirality: lipase-mediated resolution and fractional crystallization

Absolute configuration: (*5S,8S*)

Stefano Serra,* Assem Barakat and Claudio Fuganti

Tetrahedron: Asymmetry 18 (2007) 2573



$C_{13}H_{18}O_3$

(+)-Dehydrovomifoliol

Ee = 98%

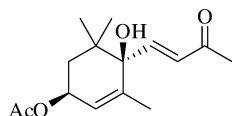
$[\alpha]_D^{20} = +222$ (c 0.5, CH_2Cl_2)

Source of chirality: lipase-mediated resolution and fractional crystallization

Absolute configuration: (6*S*)

Stefano Serra,* Assem Barakat and Claudio Fuganti

Tetrahedron: Asymmetry 18 (2007) 2573



$C_{15}H_{22}O_4$

(-)-(3*S*,6*R*)-3-Acetoxy-6-hydroxy- α -ionone

Ee = 97%

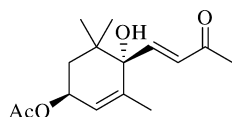
$[\alpha]_D^{20} = -198.8$ (c 1, $CHCl_3$)

Source of chirality: lipase-mediated resolution and fractional crystallization

Absolute configuration: (3*S*,6*R*)

Stefano Serra,* Assem Barakat and Claudio Fuganti

Tetrahedron: Asymmetry 18 (2007) 2573



$C_{15}H_{22}O_4$

(+)-(3*S*,6*S*)-3-Acetoxy-6-hydroxy- α -ionone

Ee = 98%

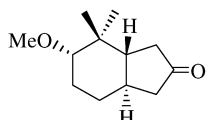
$[\alpha]_D^{20} = +164$ (c 1, $CHCl_3$)

Source of chirality: lipase-mediated resolution and fractional crystallization

Absolute configuration: (3*S*,6*S*)

Adusumilli Srikrishna* and B. Beeraiah

Tetrahedron: Asymmetry 18 (2007) 2587



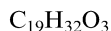
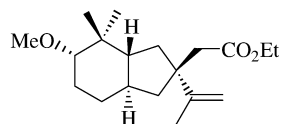
$C_{12}H_{20}O_3$

(1*R*,3*S*,6*R*)-2,2-Dimethyl-3-methoxybicyclo[4.3.0]nonan-8-one

$[\alpha]_D^{25} = -35.0$ (c 3.0, $CHCl_3$)

Source of chirality: campholenaldehyde

Absolute configuration: (1*R*,3*S*,6*R*)

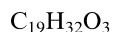
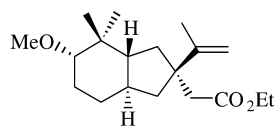


Ethyl 2-[(1*R*,3*S*,6*R*,8*S*)-3-methoxy-2,2-dimethyl-8-(1-methylethenyl)bicyclo[4.3.0]non-8-yl]-acetate

$$[\alpha]_{\text{D}}^{25} = +4.4 \text{ (} c \text{ 1.8, CHCl}_3 \text{)}$$

Source of chirality: campholenaldehyde

Absolute configuration: (1*R*,3*S*,6*R*,8*R*)

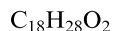
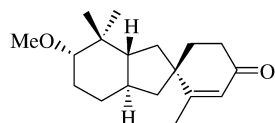


Ethyl 2-[(1*R*,3*S*,6*R*,8*R*)-3-methoxy-2,2-dimethyl-8-(1-methylethenyl)bicyclo[4.3.0]non-8-yl]-acetate

$$[\alpha]_{\text{D}}^{25} = -4.4 \text{ (} c \text{ 1.8, CHCl}_3 \text{)}$$

Source of chirality: campholenaldehyde

Absolute configuration: (1*R*,3*S*,6*R*,8*S*)

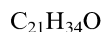
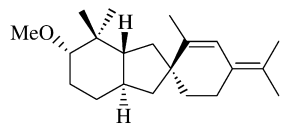


(1*R*,3*S*,6*R*,8*R*)-3-Methoxy-2,2,2'-trimethyl-bicyclo[4.3.0]nonanespiro[8.1']cyclohex-2'-en-4'-one

$$[\alpha]_{\text{D}}^{25} = -38.3 \text{ (} c \text{ 0.6, CHCl}_3 \text{)}$$

Source of chirality: campholenaldehyde

Absolute configuration: (1*R*,3*S*,6*R*,8*R*)



(1*R*,3*S*,6*R*,8*S*)-4'-Isopropylidene-3-methoxy-2,2,2'-trimethylbicyclo[4.3.0]nonanespiro-[8.1']cyclohex-2'-ene

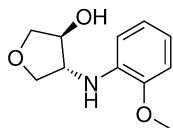
$$[\alpha]_{\text{D}}^{23} = +15.0 \text{ (} c \text{ 1.4, CHCl}_3 \text{)}$$

Source of chirality: campholenaldehyde

Absolute configuration: (1*R*,3*S*,6*R*,8*S*)

Myriam Martin, Sophie Bezzenine-Lafollée,* Richard Gil and Jacqueline Collin*

Tetrahedron: Asymmetry 18 (2007) 2598



(1*R*,2*R*)-4-Oxa-2-(2-methoxyphenylamino)cyclopentanol

Ee = 48% by HPLC on WHELK O1 column

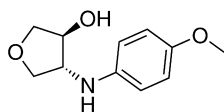
$[\alpha]_D^{20} = +7.9$ (c 1.0, CHCl₃)

Source of chirality: asymmetric catalysis

Absolute configuration: (1*R*,2*R*)

Myriam Martin, Sophie Bezzenine-Lafollée,* Richard Gil and Jacqueline Collin*

Tetrahedron: Asymmetry 18 (2007) 2598



(1*R*,2*R*)-4-Oxa-2-(4-methoxyphenylamino)cyclopentanol

Ee = 66% by HPLC on CHIRALPAK AD column

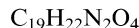
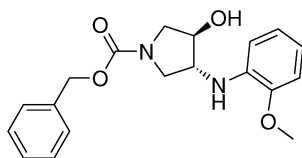
$[\alpha]_D^{20} = +8.1$ (c 1.0, CHCl₃)

Source of chirality: asymmetric catalysis

Absolute configuration: (1*R*,2*R*)

Myriam Martin, Sophie Bezzenine-Lafollée,* Richard Gil and Jacqueline Collin*

Tetrahedron: Asymmetry 18 (2007) 2598



(3*R*,4*R*)-Benzyl 3-hydroxy-4-(2-methoxyphenylamino)pyrrolidine-1-carboxylate

Ee = 43% by HPLC on CHIRALPAK AD column

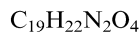
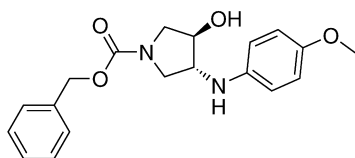
$[\alpha]_D^{20} = +12.1$ (c 1.0, CHCl₃)

Source of chirality: asymmetric catalysis

Absolute configuration: (3*R*,4*R*)

Myriam Martin, Sophie Bezzenine-Lafollée,* Richard Gil and Jacqueline Collin*

Tetrahedron: Asymmetry 18 (2007) 2598



(3*R*,4*R*)-Benzyl 3-hydroxy-4-(4-methoxyphenylamino)pyrrolidine-1-carboxylate

Ee = 10% by HPLC on CHIRALCEL OD-H column

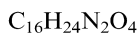
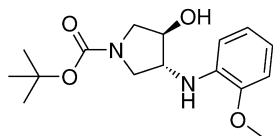
$[\alpha]_D^{20} = +3.0$ (c 1.0, CHCl₃)

Source of chirality: asymmetric catalysis

Absolute configuration: (3*R*,4*R*)

Myriam Martin, Sophie Bezenine-Lafollée,* Richard Gil and Jacqueline Collin*

Tetrahedron: Asymmetry 18 (2007) 2598



(3*R*,4*R*)-*tert*-Butyl 3-hydroxy-4-(2-methoxyphenylamino)pyrrolidine-1-carboxylate

Ee = 58% by HPLC on CHIRALPAK IA column

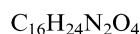
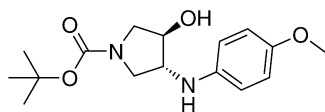
$[\alpha]_D^{20} = +11.4$ (*c* 1.0, $CHCl_3$)

Source of chirality: asymmetric catalysis

Absolute configuration: (3*R*,4*R*)

Myriam Martin, Sophie Bezenine-Lafollée,* Richard Gil and Jacqueline Collin*

Tetrahedron: Asymmetry 18 (2007) 2598



(3*R*,4*R*)-*tert*-Butyl 3-hydroxy-4-(4-methoxyphenylamino)pyrrolidine-1-carboxylate

Ee = 47% by HPLC on CHIRALPAK IA column

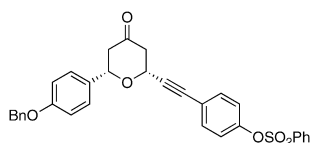
$[\alpha]_D^{20} = +7.5$ (*c* 0.94, $CHCl_3$)

Source of chirality: asymmetric catalysis

Absolute configuration: (3*R*,4*R*)

Takuya Washio, Hisanori Nambu, Masahiro Anada and Shunichi Hashimoto*

Tetrahedron: Asymmetry 18 (2007) 2606



(2*R*,6*S*)-2-(4-Benzenesulfonyloxyphenylethynyl)-6-(4-benzyloxyphenyl)tetrahydropyran-4-one

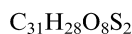
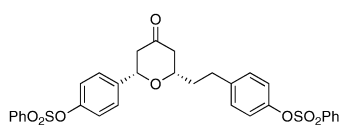
$[\alpha]_D^{22} = -2.9$ (*c* 1.00, $CHCl_3$)

Source of chirality: asymmetric hetero-Diels–Alder reaction

Absolute configuration: (2*R*,6*S*)

Takuya Washio, Hisanori Nambu, Masahiro Anada and Shunichi Hashimoto*

Tetrahedron: Asymmetry 18 (2007) 2606



(2*S*,6*S*)-2-(4-Benzenesulfonyloxyphenyl)-6-[2-(4-benzenesulfonyloxyphenyl)ethyl]tetrahydropyran-4-one

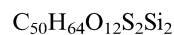
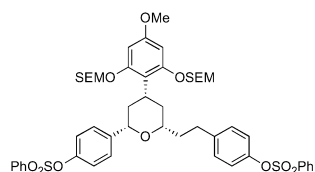
$[\alpha]_D^{21} = -45.5$ (*c* 1.00, $CHCl_3$)

Source of chirality: asymmetric hetero-Diels–Alder reaction

Absolute configuration: (2*S*,6*S*)

Takuya Washio, Hisanori Nambu, Masahiro Anada and
Shunichi Hashimoto*

Tetrahedron: Asymmetry 18 (2007) 2606



(2*S*,4*R*,6*S*)-2-(4-Benzenesulfonyloxyphenyl)-6-[2-(4-benzenesulfonyloxyphenyl)ethyl]-4-{4-methoxy-2,6-bis-[2-(trimethylsilyl)ethoxymethoxy]phenyl} tetrahydropyran

$[\alpha]_D^{24} = -6.7$ (*c* 1.05, $CHCl_3$)

Source of chirality: asymmetric hetero-Diels–Alder reaction

Absolute configuration: (2*S*,4*R*,6*S*)